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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/018,061	07/30/2002	David Bailey	APV 31535	5392	
24257 7590 02/16/2005			EXAMINER		
STEVENS D	STEVENS DAVIS MILLER & MOSHER, LLP			BELL, BRUCE F	
1615 L STRE	ET, NW		The state of the s		
SUITE 850			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20036			1746		

DATE MAILED: 02/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	•			
.	10/018,061	BAILEY ET AL.				
Office Action Summary	Examiner	Art Unit	•			
	Bruce F. Bell	1746	•			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 July 2002 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/14/01.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Hiai et al (5865967).

Hiai et al disclose a mother plate (cathode plate) having a V-shaped groove construction wherein the V-shaped groove is made to have an angle of between 60° and 120°. See col. 3, lines 9-12. The mother plate is made of stainless steel and has a v-shaped groove having an angle of 90° on the side surface of the edge. See Figure 1 and Example 1. The cathode plate is used in an electrolyte liquid having sulfuric acid, copper, nickel and bismuth where the cathode plate is coated with high purity copper material. After the deposition process the electrodeposited copper is peeled from the cathode plate in a conventional manner. See col. 4, lines 10-32.

Hiai et al anticipates the applicant's instant apparatus and method as set forth in the instant claims. Applicant's instant novelty is that the bottom edge of the cathode plate is a groove having sides that are between 75 and 150°, that when made in this manner yields an electro-deposited film that when formed on the cathode plate will separate off the plate equally by way of a line of weakness

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in the film. The prior art Hiai et al by the nature of design, will inherently have those properties, since the range and the specific example as set forth in Example 1, shows the angle to be 90°. Therefore, since applicant's instant cathode plate and that of the prior art invention have the same angle, the instant cathode as set forth in the instant claims has been met by that of the prior art of Hiai et al which inherently has the same feature as instantly claimed. The method of electro-depositing using a cathode plate having a groove of the same dimensions as that of the prior art cathode will also inherently electro-deposit the material in the same manner as set forth in the instant claims, since it appears that the electrode design aids in the deposition and removal of the electrodeposited material.

Therefore the prior art of Hiai et al anticipates the applicant's instant invention as set forth above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce F. Bell whose telephone number is 571-272-1296. The examiner can normally be reached on Monday-Friday 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BFB February 14, 2005 Snuce Sell Bruce F. Bell Primary Examiner Art Unit 1746